

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
17 February 2005 (17.02.2005)

PCT

(10) International Publication Number
WO 2005/015207 A3

(51) International Patent Classification⁷: **G01N 33/569**

(21) International Application Number:
PCT/EP2004/051726

(22) International Filing Date: 5 August 2004 (05.08.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
RM2003A000386 5 August 2003 (05.08.2003) IT

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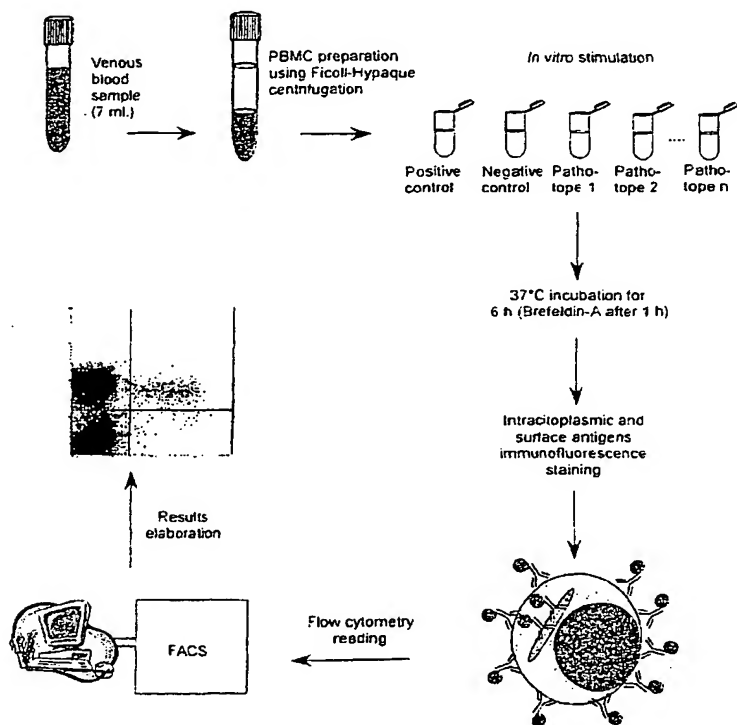
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(54) Title: **METHOD AND DIAGNOSTIC TESTS BASED ON FLOW CYTOMETRIC ANALYSIS OF ANTIGEN-SPECIFIC T LYMPHOCYTES**

An illustrative example of the procedure of antigen-specific reactivity immunodiagnosis



(57) Abstract: The present invention provides a method for the immuno-diagnosis of diseases with different aetiology (infectious diseases, tumors etc) by measurement of the T cell response J, B and NK lymphocytes) induced by a set of diseasespecific antigens. The method is based on the quantitative determination of antigenspecific T lymphocytes (referred as Ag-Sp), stimulated by using a newly devised pathology-specific antigen or epitope compositions which represent further embodiments of the invention. After stimulation, the selective measurement of the Ag-Sp T lymphocytes is performed by: A) monoclonal antibodies recognizing membrane structures of T lymphocytes and of their sub-populations; B) monoclonal antibodies binding to cytokines accumulating at intracellular level after the stimulation with the antigen; or C) mixtures of A) and B). The flow cytometric detection of the presence of markers of differentiation on T lymphocytes and of intracytoplasmic cytokines allows the acquisition of both qualitative and quantitative results. The invention also provides diagnostic kits for performing the method of the invention.



(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,

SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

Published:

— with international search report

— with sequence listing part of description published separately in electronic form and available upon request from the International Bureau

(88) Date of publication of the international search report:

18 August 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.